



EUROPEAN COMMISSION

DIRECTORATE-GENERAL FOR COMMUNICATIONS NETWORKS, CONTENT AND TECHNOLOGY

Electronic Communications Networks and Services

Radio Spectrum Policy Group

RSPG Secretariat

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RSPG19-018 FINAL

RADIO SPECTRUM POLICY GROUP

Progress Report of the RSPG Working Group on 5G

RSPG work item: update to Plenary	
Work item	5G Implementation Challenges
Rapporteur/s	Bo Andersson, PTS, Sweden, Tassos Lyratzis, EETT, Greece
Rationale	<p>The European Commission presented in September 2016 an Action Plan for 5G in Europe to show that Europe has the ambition to lead on the deployment of 5G and move to a gigabit society and make sure all Europeans, whether in the countryside or in cities, can get access to a quality internet connection.</p> <p>RSPG addressed initial spectrum strategy milestones on 5G in its Opinion of November 2016 and send a clear signal towards the global development of harmonised frequency bands above 24 GHz in its interim Opinion on WRC-19. Overall it is noted that the spectrum policy challenge on 5G is very closely related to the on-going development of 5G technology.</p> <p>In consequence, RSPG will continue its efforts and contribute actively to the development of Europe's spectrum policy strategy regarding 5G, including bands being studied at WRC, and other spectrum needed to deliver the services to all European citizens including for IoT/M2M and other applications such as ITS.</p>
Scope	<p>The RSPG has developed a strategic roadmap towards 5G for Europe and adopted a second opinion on 5G in February 2018 (supplementary opinion on strategic issues related to spectrum regulation of 5G networks).</p> <p>On the basis of these, RSPG plans to present an analysis with a view on how to defragment the 3.4-3.8 GHz band in EU.</p> <p>RPSG will assess the impact of the future use of 5G technology in other areas than mobile broadband (internet of things, intelligent transportation and other verticals) and initiate further work where necessary.</p> <p>RSPG will engage to enable information and experience sharing in support of a successful roll-out of 5G in EU.</p>
Planned deliverables and timing	<p>RSPG Opinion(s) or Report(s) as appropriate. High-level workshops could also be envisaged and used to facilitate these deliverables.</p> <p>Time schedule:</p> <ul style="list-style-type: none"> • Draft Report/Opinion November 2018 • Final Report/Opinion in April 2019
Analytical approach	<p>Overall ambition for RSPG to communicate early about 5G</p> <p>Identify the challenges from a European perspective regarding what is necessary to do in order to launch and implement 5G on a large scale.</p> <p>Analyse both on a policy level as well as on a level covering different spectrum bands and technologies.</p>

	<p>Consider what applications and services European consumers will want to have to access to.</p> <p>Consider the use cases and future applications and services in demand from different vertical industries in Europe.</p> <p>Assess possible constraints on these developments depending on the availability of different spectrum bands.</p>
Project plan	<p>Phase 1 – Information gathering</p> <p>Phase 2 – Analysis and assessment</p> <p>Phase 3 – Review conclusions (including stakeholder engagement)</p> <p>Phase 4 – Conclude and report</p>
Dependencies	<p>This work is closely linked to the RSPG work item on Peer Review process proposed by the European Electronic Communications Code (EECC) We plan to have regular discussions with the rapporteurs for the Peer Review Platform work item and possibly joint WG meetings / Workshops to ensure we share information and align the work as appropriate.</p> <p>In the same manner, the work could also be related to the RSPG work item on <i>Good offices</i>.</p>

Members, stakeholders and resources

Members	<p>Austria, RTR</p> <p>Croatia, HACOM</p> <p>Denmark, Danish Energy Agency</p> <p>EU, DG CNECT</p> <p>Finland, Ficora</p> <p>France, ANFR</p> <p>France, ARCEP</p> <p>France, Ministere des finances</p> <p>Germany, BNetzA</p> <p>Germany, BMVI BUND</p> <p>Greece, EETT</p> <p>Greece, Ministry of Digital Policy</p> <p>Ireland, DCENR</p> <p>Ireland, COMREG</p> <p>Italy, AGCOM</p> <p>Luxembourg, SMC</p> <p>Malta, MCA</p> <p>Poland, Ministry of Digital Affairs</p> <p>Serbia, RATEL</p> <p>Slovenia, AKOS</p> <p>Spain, Minetur</p> <p>Sweden, PTS</p> <p>The Netherlands, Minez</p> <p>United Kingdom, Ofcom</p>
Key stakeholders	<p>Telecom operators</p> <p>Vertical industries</p> <p>Equipment suppliers</p>
Other resources	

Work flow (internal and external milestones)

Date	Action / deliverable	Internal Work group only	External Plenary, Publication
Year 2018			
15 March (Brussels)	First meeting of work group – discuss scope and plan following new <i>RSPG Work Programme</i> and new work item on <i>5G Implementation Challenges</i> , - discuss on Member States plans for launching 5G trials, and authorizing 5G frequency bands	Work group	
11 April (Brussels)	Second meeting of work group – discuss possible survey to member states on defragmentation. Discussion on future needs of different verticals and shared information on present 5G activities in EU.	Work group	TCCA representative invited to present challenges in critical mobile communication from the perspective of verticals
24 May (Brussels)	Third meeting of work group – discuss survey on defragmentation to member states and possible alternative methods of collecting and sharing data and experiences to analyse defragmentation. Continued work on future needs of different verticals.	Work group	5GAA representatives invited to present spectrum challenges from the perspective of the automotive industry
5 June	Progress of work presented to Plenary	Rapporteur	Plenary
10 July (Brussels)	Fourth meeting of work group – Continued work on future needs of different verticals. Discussion on draft opinion text on defragmentation of the 3.4-3.8 GHz band and on connectivity for vertical industries.	Work group	Representative from Bosch invited to present possible spectrum challenges and demands from the perspective of the industry
11 September (Paris)	Fifth meeting of work group – Continued discussion on draft opinion text on defragmentation of the 3.4-3.8 GHz band and on connectivity for vertical industries. - Agreed on key messages that should be published for public consultation by the RSPG.	Work group	
3 October	Progress of work presented to Plenary. - Draft opinion submitted for public consultation after plenary	Rapporteur	Plenary, Draft Opinion on public consultation

Date	Action / deliverable	Internal Work group only	External Plenary, Publication
18 December (Brussels)	<p>Sixth meeting of work group Follow up of responses received from public consultation. Continued discussion on opinion text following the public consultation. Unable to agree on key issue to include or not a reference to 80-100 MHz in opinion section on defragmentation. Agree to raise the key issue to RSPG Plenary. Agree to include annex on connectivity for vertical industries in the proposed final opinion to plenary. Agree to exclude annex on defragmentation of the 3.4-3.8 GHz band.</p> <p>A further discussion regarding the suitability of the annex on vertical industries for publication was raised after the meeting prior to the RSPG plenary, but is not included at this stage since the whole group did not have the possibility to work this through.</p>	Work group	
Year 2019			
30 January (Brussels)	Progress of work presented to Plenary. - Third opinion submitted for publication	Rapporteur	Plenary, Third Opinion submitted for publication
7 May (Dublin)	Sixth meeting of work group – discuss scope and plan following publication of third opinion and <i>RSPG Work Programme</i> on work item on <i>5G Implementation Challenges</i> , - <i>discussion on experiences in Member States, current implementation challenges, and status on authorizing 5G frequency bands</i>	Work group	
11 June (Brussels)	Seventh meeting of the group	Work group	
Future dates and actions to be decided in light of work plan			